

**Amendments to the Claims**

Please cancel claims 15-28 without prejudice. Please add new claims 29-43 as indicated below in the List of Claims.

**List of Claims**

1-28. Cancelled.

29. (New) A process for producing a branched chain L-amino acid, comprising:

- Sub  
8/24/07
- a) amplifying the activity of *bmE* (SEQ ID NO:5) or *bmF* (SEQ ID NO:3) in a bacterium;
  - b) cultivating the bacterium of step a) in a culture medium under conditions effective for the production of said branched chain L-amino acid; and
  - c) isolating said branched chain L-amino acid from the cultivated bacterium or culture medium of step b).

2 30. (New) The process of claim 29, wherein said bacterium is of the genus *Corynebacterium*.

3 31. (New) The process of claim 30, wherein said bacterium is of the species *Corynebacterium glutamicum*.

4 32. (New) The process of any one of claims 29-31, wherein said branched chain L-amino acid is selected from the group consisting of: L-leucine; L-isoleucine; and L-valine.

5 33. (New) A process for producing a branched chain L-amino acid, comprising:  
a) transforming a bacterial host cell with a recombinant vector comprising a nucleic acid insert encoding a protein consisting essentially of the amino acid sequence of SEQ ID NO:3; the amino acid sequence of SEQ ID NO:5; or both;

- b) cultivating the transformed bacterial host cell of step a) in a culture medium under conditions effective for the production of said branched chain L-amino acid; and
- c) isolating said branched chain L-amino acid from the cultivated bacterial host cell or culture medium of step b).

6 34. (New) The process of claim <sup>5</sup>33, wherein said nucleic acid insert consists essentially of a nucleic acid sequence selected from the group consisting of: SEQ ID NO:1; nucleotides 101-1176 of SEQ ID NO:1; SEQ ID NO:2; and SEQ ID NO:4.

7 35. (New) The process of claim <sup>5</sup>33, wherein said nucleic acid insert consists of a nucleic acid sequence selected from the group consisting of: SEQ ID NO:1; nucleotides 101-1176 of SEQ ID NO:1; SEQ ID NO:2; and SEQ ID NO:4.

8 36. (New) The process of claim <sup>5</sup>33, wherein said nucleic acid insert consists essentially of nucleotides 101-853 of SEQ ID NO:6 or nucleotides 853-1176 of SEQ ID NO:6.

9 37. (New) The process of claim <sup>8</sup>36, wherein said nucleic acid insert consists of nucleotides 101-853 of SEQ ID NO:6 or nucleotides 853-1176 of SEQ ID NO:6.

10 38. (New) The process of claim <sup>5</sup>33, wherein said nucleic acid insert comprises:

- a) nucleotides encoding a first polypeptide, said first polypeptide consisting essentially of the amino acid sequence of SEQ ID NO:3; and
- b) nucleotides encoding a second distinct polypeptide, said second distinct polypeptide consisting essentially of the amino acid sequence of SEQ ID NO:5.

11 39. (New) The process of claim <sup>5</sup>33, wherein said nucleic acid insert consists essentially of the nucleotide sequence of SEQ ID NO:2 and the nucleotide sequence of SEQ ID NO:4.

12 40

(New) The process of claim <sup>11</sup>39, wherein said nucleic acid insert consists of the nucleotide sequence of SEQ ID NO:2 and the nucleotide sequence of SEQ ID NO:4.

13 41

(New) The process of any one of claims <sup>5-12</sup>33-40, wherein said bacterium is of the genus *Corynebacterium*.

14 42

(New) The process of claim <sup>13</sup>41, wherein said bacterium is of the species *Corynebacterium glutamicum*.

15 43

(New) The process of any one of claims <sup>5-12</sup>33-40, wherein said branched chain L-amino acid is selected from the group consisting of: L-leucine; L-isoleucine; and L-valine.